**From:** /O=CITY OF RANCHO PALOS VERDES/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=AMY SEERATYCEE
**To:** Scott Campbell <scampbell@trumpnational.com>; Lili Amini <lamini@trumpnational.com>
**Cc:** Ara Mihranian; Kit Fox
**Subject:** RE: 2019-09-20 Approved Sewer Tr 50666.pdf
**Attachments:** 2019-09-20 Approved Sewer Tr 50666.pdf

---

Thanks Scott.

-----Original Message-----
From: Scott Campbell [mailto:scampbell@trumpnational.com]
Sent: Friday, November 15, 2019 5:58 PM
To: Amy Seeraty ; Lili Amini
Subject: 2019-09-20 Approved Sewer Tr 50666.pdf

Hi Amy
This is the sewer plans for the work we will be doing.

Thank you Scott Campbell
Project Manager
Trump National LA
415-760-4040
scampbell@trumpnational.com

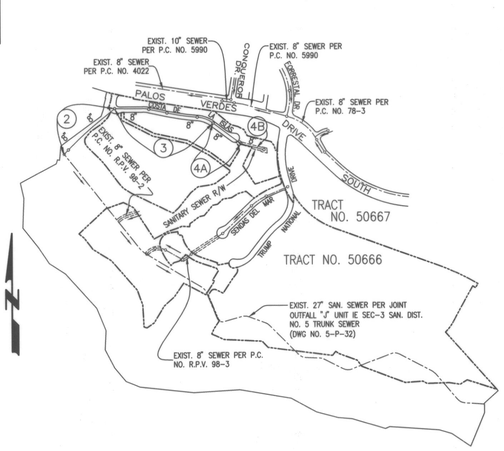
2019-09-20 Approved Sewer Tr 50666.pdf

## BENCH MARK

B.M. CY9368 Elev. 291.039

RDBM TAG N CB E END CB 10 Ft. E/O BCR NE COR PALOS VERDES DR. S and CONQUEROR DR. 43 Ft. N & 45 Ft. E/O C/L Int. PALOS VERDES QUADRANT 1980

Per Title 20.24.140 of LA County Code, obstructing access to sewer facilities is prohibited. No object difficult to remove shall be located over the sewer easement(s) as to interfere with ready access to sewer facilities.




## INDEX MAP

BUILDING AND SAFETY DISTRICT OFFICE: LOMITA

NOTES: NUMBER IN CIRCLE INDICATES PAGE NUMBER. ALL MAINLINE SANITARY SEWERS ARE WITHIN THE SANITARY SEWER EASEMENT (IF APPLICABLE)

SCALE: 1" = 600' CSMD INDEX S-1601

P.C. RPAL 07-1 TR. NO. 50666

THOMAS GUIDE PAGE: 823, D-6

| NO. | REVISION | REVISED BY | APPROVED BY | DATE |
|---|---|---|---|---|
| | | | | |
| | | | | |

NOTES:
Any damage to the sewer line shall be the responsibility of the contractor/owner. All grading and construction occurring over and the vicinity of the existing sewer shall be performed in the presence of a County inspector. Where applicable, the sewers shall be protected per Std. Plan 2023-2 at all significant crossings.

## STORMWATER POLLUTION PLAN NOTES

A. NOTES:
1. Every effort should be made to eliminate the discharge of non-stormwater from the project site at all times.
2. Eroded sediments and other pollutants must be retained on site and may not be transported from the site via sheetflow, swales, area drains, natural drainage courses or wind.
3. Stockpiles of earth and other construction related materials must be protected from being transported from the site by the forces of wind or water.
4. Fuels, oils, solvents, and other toxic materials must be stored in accordance with their listing and are not to contaminate the soil and surface waters. All approved storage containers are to be protected from the weather. Spills must be cleaned up immediately and disposed of in a proper manner. Spills may not be washed into the drainage system.
5. Excess or waste concrete may not be washed into the Public way or any other drainage system. Provisions shall be made to retain concrete wastes on site until they can be disposed of as solid waste.
6. Trash and construction related solid wastes must be deposited into a covered receptacle to prevent contamination of rainwater and dispersed by wind.
7. Sediments and other materials may not be tracked from the site by vehicle traffic. The construction entrance roadways must be stabilized so as to inhibit sediments from being deposited into the public way. Accidental depositions must be swept up immediately and may not be washed down by rain or other means.
8. Any slopes with disturbed soils or denuded of vegetation must be stabilized so as to inhibit erosion by wind and water.
9. The following BMPs as outlined in, but not limited to, the latest edition of the California BMP Handbook (Construction) or Caltrans Stormwater Quality Handbooks (Construction Site BMP Manual), may apply during the construction of this project (additional measures may be required if deemed appropriate by the Project Engineer or the Building Official)

EROSION CONTROL
- EC1 SCHEDULING
- EC2 PRESERVATION OF EXISTING VEGETATION
- EC3 HYDRAULIC MULCH
- EC4 HYDROSEEDING
- EC5 SOIL BINDERS
- EC6 STRAW MULCH
- EC7 GEOTEXTILES & MATS
- EC8 WOOD MULCHING
- EC9 EARTH DIKES AND DRAINAGE SWALES
- EC10 VELOCITY DISSIPATION DEVICES
- EC11 SLOPE DRAINS
- EC12 STREAMBANK STABILIZATION
- EC13 RESERVED
- EC14 COMPOST BLANKETS
- EC15 SOIL PREPARATION/ROUGHENING
- EC16 NON-VEGETATED STABILIZATION

WIND EROSION CONTROL
- WE1 WIND EROSION CONTROL

EQUIPMENT TRACKING CONTROL
- TC1 STABILIZED CONSTRUCTION ENTRANCE EXIT
- TC2 STABILIZED CONSTRUCTION ROADWAY
- TC3 ENTRANCE/OUTLET TIRE WASH

NON-STORM WATER MANAGEMENT
- NS1 WATER CONSERVATION PRACTICES
- NS2 DEWATERING OPERATIONS
- NS3 PAVING AND GRINDING OPERATIONS
- NS4 TEMPORARY STREAM CROSSING
- NS5 CLEAR WATER DIVERSION
- NS6 ILLICIT CONNECTION/DISCHARGE
- NS7 POTABLE WATER/IRRIGATION
- NS8 VEHICLE AND EQUIPMENT CLEANING
- NS9 VEHICLE AND EQUIPMENT FUELING
- NS10 VEHICLE AND EQUIPMENT MAINTENANCE
- NS11 PILE DRIVING OPERATIONS
- NS12 CONCRETE CURING
- NS13 CONCRETE FINISHING
- NS14 MATERIAL AND EQUIPMENT USE
- NS15 DEMOLITION ADJACENT TO WATER
- NS16 TEMPORARY BATCH PLANTS

WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL
- WM1 MATERIAL DELIVERY AND STORAGE
- WM2 MATERIAL USE
- WM3 STOCKPILE MANAGEMENT
- WM4 SPILL PREVENTION AND CONTROL
- WM5 SOLID WASTE MANAGEMENT
- WM6 HAZARDOUS WASTE MANAGEMENT
- WM7 CONTAMINATION SOIL MANAGEMENT
- WM8 CONCRETE WASTE MANAGEMENT
- WM9 SANITARY/SEPTIC WASTE MANAGEMENT
- WM10 LIQUID WASTE MANAGEMENT

TEMPORARY SEDIMENT CONTROL
- SE1 SILT FENCE
- SE2 SEDIMENT BASIN
- SE3 SEDIMENT TRAP
- SE4 CHECK DAM
- SE5 FIBER ROLLS
- SE6 GRAVEL BAG BERM
- SE7 STREET SWEEPING AND VACUUMING
- SE8 SANDBAG BARRIER
- SE9 STRAW BALE BARRIER
- SE10 STORM DRAIN INLET PROTECTION
- SE11 ACTIVE TREATMENT SYSTEMS
- SE12 TEMPORARY SILT DIKE
- SE13 COMPOST SOCKS & BERMS
- SE14 BIOFILTER BAGS

B. STANDARD PLANS:
The following latest revised standard plans on file in the office of the following department shall apply in the construction of this project.

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

| | | | |
|---|---|---|---|
| 2000-0 | Legend for sanitary sewer plans and profiles and district maps. | 2021-1 | Bedding for sewer pipe. |
| 2002-1 | Precast concrete shallow manhole. | 2023-2 | Cradling and encasement. |
| 2003-2 | Reinforced precast concrete manhole. | 2024-1 | WYE or TEE support. |
| 2004-1 | Rectangular shallow manhole. | 2026-1 | Erosion protection in steep slopes. |
| 2014-1 | Rectangular manhole frame and cover. | 2027-1 | Allowable trench widths. |
| 2015-1 | Standard manhole step. | 6008-1 | Minimum public safety requirements. |
| | | 2100-1 | Requirement's for sanitary sewers near water mains |

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (SPPWC)

| | | | |
|---|---|---|---|
| 200-3 | Precast Concrete Sewer manhole | | |
| 207-2 | Precast reinforced concrete manhole base | 221-2 | Pipe anchors and backfill stabilizers |
| 208-2 | Breaking into existing manholes | 222-2 | House connection sewer |
| 210-3 | Manhole frame and cover locking type | 223-2 | House connection remodeling |
| 220-3 | Chimneys | 225-2 | Blanket protection for pipes |

**NOTICE TO CONTRACTOR:**

LOT A THRU K, AND LOTS 24 AND 25 ARE RESTRICTED FROM CONSTRUCTION OF BUILDINGS AND WILL NOT BE SERVED BY THIS SEWER.

EXISTING SEWER SYSTEM SHALL BE OPERATIONAL AT ALL TIMES DURING CONSTRUCTION / RECONSTRUCTION. NOTIFY AFFECTED HOMEOWNERS AT LEAST 72 HOURS IN ADVANCE.

The developer shall be responsible for the continued maintenance of PC RPAL 07-1 sanitary sewer until the County formally accepts it for maintenance. All mainline, manholes and laterals shall be protected from damage and infiltration.

MAINTAIN SEWER FLOW AT ALL TIMES DURING CONSTRUCTION.

BWV BACKWATER VALVES SHALL BE NECESSARY FOR LOTS 14 THRU 23

SEWER VIDEO OF ALL SEGMENTS SHALL BE SUBMITTED PRIOR TO PARTIAL FIELD ACCEPTANCE (95%) AND COMPLETED FIELD ACCEPTANCE (98%). FINAL MAP AND AS-BUILT SEWER PLANS SHALL BE SUBMITTED PRIOR TO PARTIAL FIELD ACCEPTANCE

SEWER LATERALS SHOWN ON PLANS ARE FOR REFERENCE ONLY.

ALL SANITARY SEWER MANHOLE SHAFTS AND FRAMES SHALL BE WATERTIGHT WITH BUTYL RUBBER MASTIC JOINT SEALING COMPUND OR APPROVED EQUAL BY THE LOS ANGELES COUNTY PUBLIC WORKS.

## PRIVATE CONTRACT SEWER GENERAL NOTES:

1. A sewer construction permit shall be obtained and a fee paid for construction inspection and record plans to the County of Los Angeles Department of Public Works at the Permit Counter, 900 South Fremont Avenue, 3rd Floor, Alhambra, at least 72 hours prior to starting work under this permit. Copies of all other required permits, such as road excavation, Caltrans, etc., must be filled with the permit application.
2. When work is within a contract city, a sewer construction permit shall be obtained and a fee paid for construction inspection and record plans to the City. The contractor must contact the Director of Public Works of that City to determine the location to pay the inspection fees.
3. Prior to issuance of any permit, the contractor shall file a permit for excavations and trenches from the State of California Division of Industrial Safety, and a Certificate or Worker's Compensation Insurance with the Department of Public Works or the City of Rancho Palos Verdes named as the Certificate Holder or both as applicable. The County of Los Angeles Department of Public Works and/or the City of Rancho palos Verdes shall be notified 30 days prior to cancellation of the insurance policy.
4. If work is done in a State Highway, a permit must be obtained from the State of California Division of Highways, 120 South Spring Street, Los Angeles, California.
5. The contractor shall contact the district office listed on the "Application for Construction Permit" to arrange for an acceptable construction start date.
6. Approval of this plan by the County of Los Angeles Department of Public Works or the City of Rancho Palos Verdes does not constitute a representation as to accuracy of the location of or the existence or nonexistence of any underground utility pipe or structure within the limits of this project. This note applied to all pages.
7. All work shall be in accordance with the latest approved edition of the "Standard Specification for Public Works Construction" including supplements (if there is any), the latest "Additions and Amendments to the Standard Specifications for Public Works Construction," and the latest "Special Provisions for the Construction for Sanitary Sewer" and shall be prosecuted only in the presence of the County of Los Angeles Department of Public Works or The City of Rancho Palos Verdes.
8. The contractor's attention is direct to Section 7-10.4.2 of the "Standard Specifications for Public Works Construction" in regard to safety orders and shall conform to the "Minimum Public Safety Requirement" as shown on County of Los Angeles Department of Public Works Standard Plan No. 6008-1.
9. Elevations are in feet above U.S.C. and G.S. sea level datum of 1988.
10. No revisions shall be made in these plans without the approval of the County of Los Angeles Department of Public Works or the City of Rancho Palos Verdes.
11. No representative of the County of Los Angeles Department of Public Works or the City of Rancho Palos Verdes will survey or layout any portion of the work.
12. Grades to which this improvement is to be constructed are shown on plans and profiles. Grade point for top of curbs, centerline of streets, or centerline of alleys, is shown by circles on profiles at all points between said designed points. The grade shall be established so as to conform to a straight line drawn between said design points.
13. The private engineer shall furnish the County of Los Angeles Department of Public Work or the City of Rancho Palos Verdes with grade sheets and stationing for all house laterals and "Y" and "T" branches and shall provide stakes for them at their proper locations with stationing plainly marked. All house laterals shall be constructed in a straight alignment at right angles from the main line sewer except as shown on the plans. House laterals from chimneys shall not have an angle of less than 45 degrees with the M.L. sewer. Any change in alignment shall be requested in writing by the private engineer.
14. The private engineer shall furnish the house lateral depth at the property line below the top of curb elevation for each house lateral on the grade sheet.
15. An approved backwater valve is required when the pad is lower in elevation than the top of the next upstream manhole.
16. Contact Environmental Programs Division for an Industrial Waste Discharge Permit at (626) 458-3517.

## CONSTRUCTION NOTES:

1. Provide survey stakes on the property line or property lines produced at right angles to the sewer line at the centerline of each manhole.
2. Vitrified clay pipe joints shall be type "D" or "O" per "Standard Specifications for Public Works Construction" Section 208-2.
3. If a power pole is within three feet of the sewer, the sewer shall be encased, per LACDPW Standard Plan 2023-2, Case II, two feet on each side from the point of interference.
4. All joints between cast-iron pipe and vitrified clay shall be made with a rubber sleeve joint, type "D" (with bushing if necessary), per "Standard Specifications for Public Works Construction" Section 208-2.
5. House laterals to be constructed with inverts at the property line 6 feet below curb grade except as noted.
6. Wye or tee branches may be used for connections to the mainline sewers except as noted.
7. If during the course of construction it is determined that there is less than four feet of cover over the top of a mainline or house lateral V.C.P. sewer, which is not indicated on the plans, the pipes shall be encased per LACDPW Standard Plan 2023-2, Case II, unless otherwise approved by the County of Los Angeles Department of Public Works or the City of Rancho Palos Verdes.
8. All structures shall be either brick sewer manholes per LACDPW Standard Plan S-3 (SPPWC 203-2), or precast concrete sewer manholes per LACDPW Standard Plan S-36 (SPPWC 200-3), or reinforced precast manhole per LACDPW Standard Plan 2003-2, except as noted.
9. Resurface all trenches within paved areas to meet Department of Public Work or California State Highway requirements in accordance with the permits.
10. Full compliance with Section 306-1.3 of the "Standard Specifications for Public Works Construction" will be required for backfill in street. Certification of backfill, compaction, and sand equivalents by a qualified Civil Engineer shall be provided by the permittee prior to the issuance of a Certificate of Partial Acceptance.
11. All backfill and fills outside of the street right of way shall be compacted to 90 percent of the maximum density as determined by ASTM Soil Compaction Test D 1557-78, Method "D", unless otherwise specified. This shall be certified by a qualified Civil Engineer. This certification shall be submitted to the Land development Division, Permit Section of the County of Los Angeles Department of Public Works or the City of Rancho Palos Verdes prior to the acceptance of the work by the County or the City of Rancho Palos Verdes.
12. Manhole tops in unimproved rights of way to be six inches above finished grade.
13. Sewers to be tested for leakage per Section 306-1.4 of the "Standard Specification for Public Works Construction" and "Special Provisions for the Construction of Sanitary Sewer" if applicable.
14. Manhole tops in improved rights of way to be level with finished grade.
15. All wyes and/or house laterals are to be located at least 5 feet apart, and when possible, not closer than 5 feet to any manhole.
16. All pipe materials shall be vitrified clay pipe or ductile iron pipe or other approved materials by the County of Los Angeles Department of Public Works or the City of Rancho Palos Verdes.
17. All Chimneys shall have terminal cleanout structure per SPPWC std. Plan No. 204-2.
18. All ductile iron pipe shall be lined with Protecto 401 Ceramic Epoxy lining.
19. Cured in place pipe liner shall be used for all extra strength vitrified clay pipe if lining is required.

PROFILE, ALIGNMENT, AND GRADE OF SANITARY SEWERS TO BE CONSTRUCTED IN TRACT NO. 50666 PRIVATE CONTRACT (PC) NO. 07-1
2 SHEETS, 4 PAGES
COUNTY OF LOS ANGELES CALIFORNIA
CSMD INDEX S-1601

PAGE 1

SHEET 1

MARK PESTRELLA - LA COUNTY DIRECTOR OF PUBLIC WORKS
RECOMMENDED BY LAND DEVELOPMENT DIVISION
BY _____ ASSISTANT DIVISION ENGINEER DATE 9/11/19
SUBMITTED BY Fabrizio D. Palano 9/10/19
FINAL MAPS, SEWER AND LANDSCAPING SUBDIVISION PLAN CHECKING SECTION DATE

COUNTY SANITATION DISTRICT NO. 5
OF LOS ANGELES COUNTY, CALIFORNIA
ROBERT C. FERRANTE - CHIEF ENGINEER and GENERAL MANAGER
APPROVED BY _____ FOR OFFICE ENGINEER DATE: 9/19/19

Engineer's / Surveyor's Statement Regarding the Presence of Monuments within project limits

I hereby attest that I have located and referenced on these plans the monuments existing prior to construction to ensure perpetuation of their location in accordance with section 8771 of the business and professions code. I further attest that I have performed a record search and field inspection to identify existing monuments; shall set sufficient controlling, witness, and permanent monuments; and shall file the requisite corner record or record of survey of the references with the County surveyor.

Engineer / Surveyor Seal and Signature — 09/05/2019 Date

## CITY OF RANCHO PALOS VERDES APPROVAL
TRACT NO. 50666 PC NO. _____

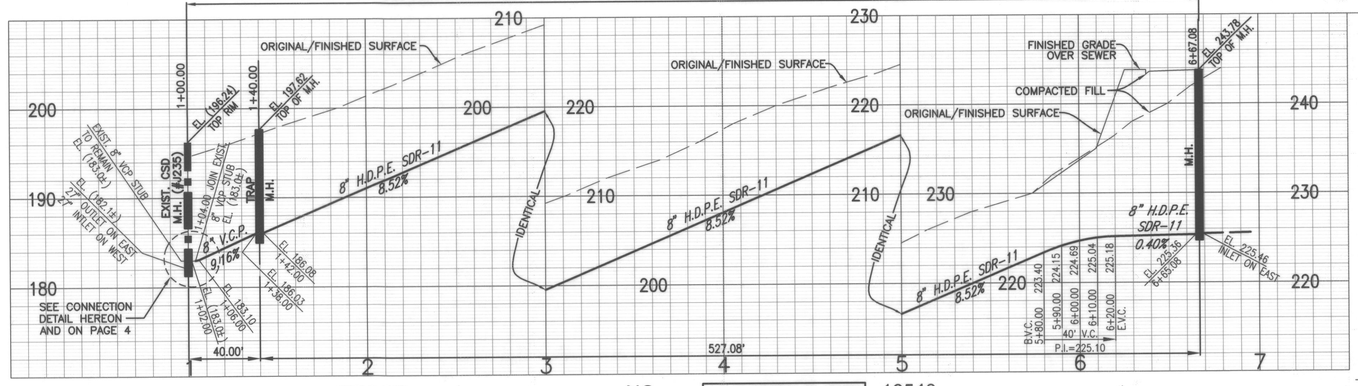
CITY OF RANCHO PALOS VERDES ☐DISCHARGE ☐OUTLET APPROVED
WE APPROVE THIS SEWER AREA STUDY /PLAN AND CONCUR WITH THE FOLLOWING FINDINGS WITHIN THE CITY ☐NO MITIGATION ☐WITH MITIGATION
APPROVED BY _____ CITY ENGINEER RCE. _____ DATE: 9-12-19

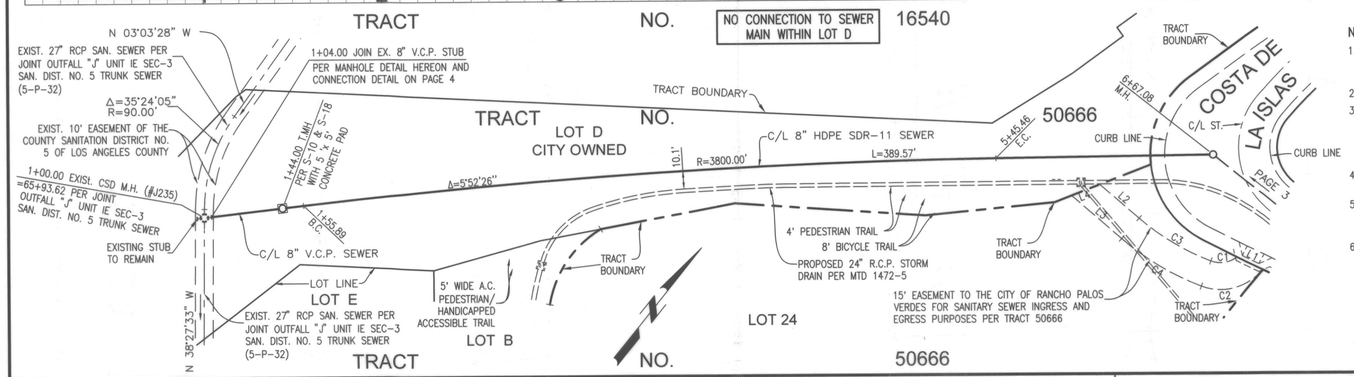
**PRIVATE ENGINEERS NOTICE TO CONTRACTORS:**
THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS IS REQUIRED BY A SEARCH OF AVAILABLE RECORDS TO THE BEST OF OUR KNOWLEDGE. THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THIS MAP. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THIS DRAWING. PRIOR TO EXCAVATION THE CONTRACTOR SHALL CALL TOLL FREE 1-800-422-4133 TO VERIFY THE UNDERGROUND LOCATION OF GAS AND TELEPHONE LINES. THE CONTRACTOR SHALL ALSO CALL MR. RAY CUMMINGS OF GENERAL TELEPHONE COMPANY AT 1-805-948-4871 SO THAT THEY CAN MARK THE LOCATION OF UNDERGROUND TELEPHONE LINES.

PROJECT ENGINEER 44179 RCE NO 09/05/2019 DATE

P.C. RPAL 07-1 PAGE 2

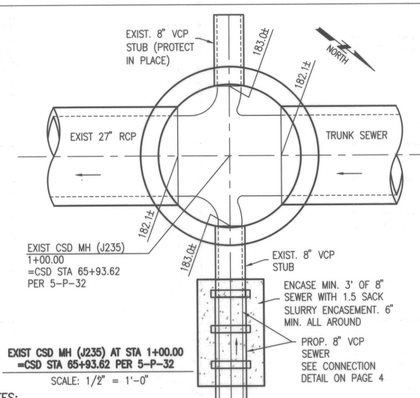
SEE CONSTRUCTION NOTE NO. 11 ON PAGE 1 REGARDING COMPACTION





N 03°03'28" W
EXIST. 27" RCP SAN. SEWER PER JOINT OUTFALL "J" UNIT IE SEC-3 SAN. DIST. NO. 5 TRUNK SEWER (5-P-32)
1+04.00 JOIN EX. 8" V.C.P. STUB PER MANHOLE DETAIL HEREON AND CONNECTION DETAIL ON PAGE 4
Δ=35°24'05" R=90.00'
EXIST. 10' EASEMENT OF THE COUNTY SANITATION DISTRICT NO. 5 OF LOS ANGELES COUNTY
1+00.00 EXIST. CSD M.H. (#J235) =65+93.62 PER JOINT OUTFALL "J" UNIT IE SEC-3 SAN. DIST. NO. 5 TRUNK SEWER
EXISTING STUB TO REMAIN
1+44.00 T.MH. PER S-10 & S-18 WITH 5 1/4" & 5' CONCRETE PAD
1+55.89 B.C.
C/L 8" V.C.P. SEWER
LOT LINE
LOT E
EXIST. 27" RCP SAN. SEWER PER JOINT OUTFALL "J" UNIT IE SEC-3 SAN. DIST. NO. 5 TRUNK SEWER (5-P-32)
N 38°27'33" W
TRACT NO. 50666
TRACT BOUNDARY
LOT D CITY OWNED
R=3800.00'
L=389.57'
Δ=5°52'26"
10'
C/L 8" HDPE SDR-11 SEWER
5+45.46 E.V.C.
6+67.08 M.H.
TRACT BOUNDARY
COSTA DE LA ISLAS
C/L ST.
CURB LINE
CURB LINE
PAGE 3
4' PEDESTRIAN TRAIL
8' BICYCLE TRAIL
PROPOSED 24" R.C.P. STORM DRAIN PER MTD 1472-5
TRACT BOUNDARY
5' WIDE A.C. PEDESTRIAN/ HANDICAPPED ACCESSIBLE TRAIL
LOT B
TRACT NO. 50666
LOT 24
15' EASEMENT TO THE CITY OF RANCHO PALOS VERDES FOR SANITARY SEWER INGRESS AND EGRESS PURPOSES PER TRACT 50666
TRACT BOUNDARY
L1
L2
L3
L4
C1
C2
C3
C4

COUNTY SANITATION DISTRICTS (CSD) NOTES:
1. NO CONNECTION FOR THE DISPOSAL OF INDUSTRIAL WASTES SHALL BE MADE TO SEWERS SHOWN ON THESE PLANS UNTIL A PERMIT FOR INDUSTRIAL WASTEWATER DISCHARGE HAS BEEN ISSUED BY THE CSD FOR SAID CONNECTION.
2. SEE CSD MANHOLE DETAIL ON THESE SEWER PLANS.
3. ALL WORK INVOLVING CSD SEWERS OR MANHOLES SHALL BE IN ACCORDANCE WITH THE LATEST EDITUION OF THE "STANDARD SPECIFICATIONS FOR PUBKLIC WORKS CONSTRUCTION" (GREENBOOK) AND CSD "AMENDEMENTS TO THE STANDARD CONSTRUCTION". A COPY OF THE AMENDMENTS AND STANDARD DRAWINGS CAN BE OBTAINED FROM THE CSD ENGINEERING COUNTER (ROOM 110) AT 1955 WORKMAN MILL ROAD, WHITTIER, CA 90601 OR FROM THE CSD WEBSITE AT WWW.LACSD.ORG.
4. CSD IS NOT RESPONSIBLE FOR ANY PERSONEL INJURY OR PROPERTY DAMAGE RELATING TO THE WORK ON THESE SEWER PLANS. THE PROJECT OWNER SHALL INDEMNIFY AND HOLD HARMLESS CSD FROM ANY CLAIMS, DAMAGE OR LOSSES RELATING TO THE WORK ON THESE SEWER PLANS. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO CSD FACILITIES AT ITS EXPENSE.

NO CITY CHARGES/NO LA COUNTY CHARGES FOR CONNECTION
SEE COUNTY SANITATION DISTRICT FOR SPECIAL CONNECTION CHARGES TEL. (562) 908-4288 EX. 2727
SCALE: VERT. 1" = 8' HORIZ. 1" = 40'
DOUBLE SCALE


EXIST. 8" VCP STUB (PROTECT IN PLACE)
183.04
182.14
NORTH
EXIST 27" RCP
TRUNK SEWER
182.14
EXIST CSD MH (J235) 1+00.00 =CSD STA 65+93.62 PER 5-P-32
183.04
EXIST. 8" VCP STUB
ENCASE MIN. 3' OF 8" SEWER WITH 1.5 SACK SLURRY ENCASEMENT. 6" MIN. ALL AROUND
PROP. 8" VCP SEWER SEE CONNECTION DETAIL ON PAGE 4
EXIST CSD MH (J235) AT STA 1+00.00 =CSD STA 65+93.62 PER 5-P-32
SCALE: 1/2" = 1'-0"

| LINE TABLE | | |
|---|---|---|
| LINE | DIRECTION | LENGTH |
| L1 | N 77°50'11" E | 15.75' |
| L2 | N 87°56'38" W | 28.96' |
| L3 | N 87°56'25" W | 36.88' |
| L4 | N 29°54'41" E | 16.96' |

| CURVE TABLE | | | |
|---|---|---|---|
| CURVE | DELTA | RADIUS | LENGTH |
| C1 | 58°52'19" | 15.00' | 15.41' |
| C2 | 71°54'27" | 30.00' | 37.65' |
| C3 | 19°54'39" | 135.00' | 46.91' |
| C4 | 19°54'39" | 150.00' | 52.13' |

NOTES:
1. NOTIFY THE COUNTY SANITATION DISTRICT (CSD) FIELD ENGINEERING MANAGER AT (310) 630-6050 AT LEAST (5) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION TO ARRANGE FOR INSPECTION.
2. VERIFY EXISTING 27" SEWER INVERTS AND EXISTING 8" STUB INVERT AND LENGTH PRIOR TO CONSTRUCTION.
3. WHEN ALLOWED BY THE CSD INSPECTOR, INSERT A FLEXIBLE FLOW-THRU PLUG IN THE MANHOLE TO CONTAIN THE FLOW, REMOVE ANY PLUGS OR BULKHEADS FROM THE 8-INCH STUB AND COMPLETE CHANNELIZATION OF THE MANHOLE BASE IN THE DRY. AS OF AUGUST 2010, THE PEAK FLOW IN THE 27-INCH TRUNK SEWER WAS 3.5 CFS. THIS WORK MAY HAVE TO BE PERFORMED DURING OVERNIGHT HOURS WHEN FLOWS ARE LOWER.
4. PROTECT EXISTING BRICK MANHOLE SHAFT DURING CONSTRUCTION. BACKFILL AROUND MANHOLE USING 1.5 SACK CEMENT SLURRY.
5. PERFORM VIDEO INSPECTION OF THE COMPLETED CONNECTION INSIDE THE MANHOLE AND PROVIDE VIDEO TO CDS INSPECTOR TO CONFIRM SATISFACTORY COMPLETION OF THE WORK.
6. A CONNECTION POINT BETWEEN THE PROPOSED 8" VCP SEWER AND THE EXISTING STUB SHALL BE ENCASED PER STANDARD PLAN S-4-212 ENCASEMENT TYPE 1A. IN PLACE OF 660-B-4000 CONCRETE, 1.5 SACK SLURRY SHALL BE USED.

PLAN
SCALE: 1" = 40'
25 0 50 100

| NO. | REVISION | REVISED BY | APPROVED BY | DATE |
|---|---|---|---|---|
| | | | | |
| | | | | |

## SANITARY SEWER PLANS IN TRACT NO. 50666 PC NO. RPAL 07-1

REVIEWED BY LAND DEVELOPMENT DIVISION
BY Pedro Romero 9/10/2019
FINAL MAPS, SEWER AND LANDSCAPING SUBDIVISION PLAN CHECKING SECTION DATE

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
FOR PLAN CHECK REVIEW FOR THE CITY OF RANCHO PALOS VERDES

REGISTERED PROFESSIONAL ENGINEER SELIM RODRIGUE SAWAYA No. 44179 CIVIL STATE OF CALIFORNIA
09/05/2019
PROJECT ENGINEER DATE

SAWAYA ENGINEERING CONSULTANTS, INC
26950 IRONSTONE DRIVE, YORBA LINDA, CA 92887
(626) 715-2320 Tel selim@ sawayaeng.com
CIVIL ENGINEERING / LAND PLANNING / SURVEYING

DWG

2019-09-20 Approved Sewer Tr 50666.pdf



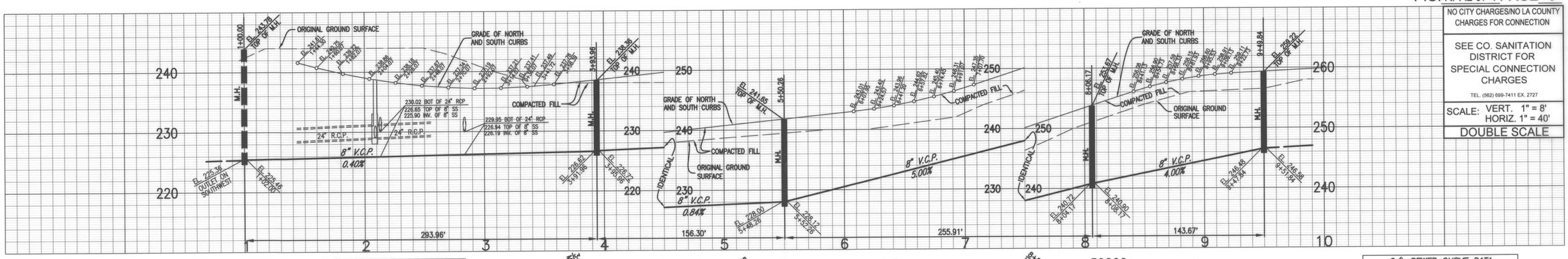
SHEET (2)

NO CITY CHARGES/NO LA COUNTY CHARGES FOR CONNECTION

SEE CO. SANITATION DISTRICT FOR SPECIAL CONNECTION CHARGES
TEL. (562) 699-7411 EX. 2727

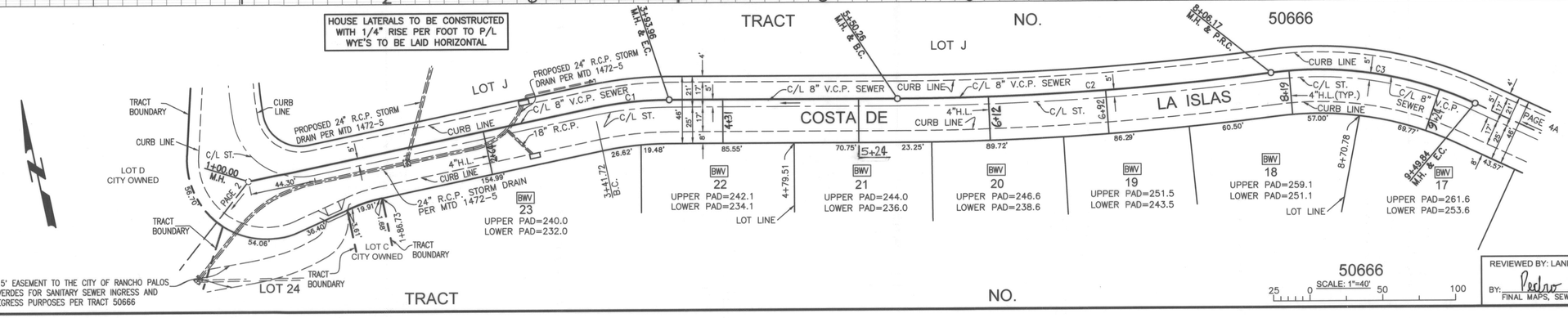
SCALE: VERT. 1" = 8'
HORIZ. 1" = 40'

DOUBLE SCALE



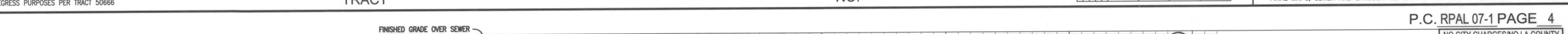

HOUSE LATERALS TO BE CONSTRUCTED WITH 1/4" RISE PER FOOT TO P/L WYE'S TO BE LAID HORIZONTAL

TRACT 50666


LOT J
PROPOSED 24" R.C.P. STORM DRAIN PER MTD 1472-5
C/L 8" V.C.P. SEWER
CURB LINE
C/L ST.
4"H.L.(TYP.)
COSTA DE
LA ISLAS
LOT D CITY OWNED
LOT C CITY OWNED
TRACT BOUNDARY
LOT 24
PAGE 2
PAGE 4A
18" R.C.P.
24" R.C.P. STORM PER MTD 1472-5
BWV 23 UPPER PAD=240.0 LOWER PAD=232.0
BWV 22 UPPER PAD=242.1 LOWER PAD=234.1
BWV 21 UPPER PAD=244.0 LOWER PAD=236.0
BWV 20 UPPER PAD=246.6 LOWER PAD=238.6
BWV 19 UPPER PAD=251.5 LOWER PAD=243.5
BWV 18 UPPER PAD=259.1 LOWER PAD=251.1
BWV 17 UPPER PAD=261.6 LOWER PAD=253.6
LOT LINE
B.C.
15' EASEMENT TO THE CITY OF RANCHO PALOS VERDES FOR SANITARY SEWER INGRESS AND EGRESS PURPOSES PER TRACT 50666

C/L SEWER CURVE DATA

| CURVE | Δ | RADIUS | LENGTH | TANGENT |
|---|---|---|---|---|
| C1 | 11°44'18" | 255.00' | 52.24' | 26.21' |
| C2 | 7°20'59" | 1995.00' | 255.91' | 128.13' |
| C3 | 32°16'54" | 255.00' | 143.67' | 73.80' |




REVIEWED BY: LAND DEVELOPMENT DIVISION
BY: Pedro Romero 9/10/2019
FINAL MAPS, SEWER AND LANDSCAPING SUBDIVISION PLAN CHECKING SECTION DATE

09/05/2019

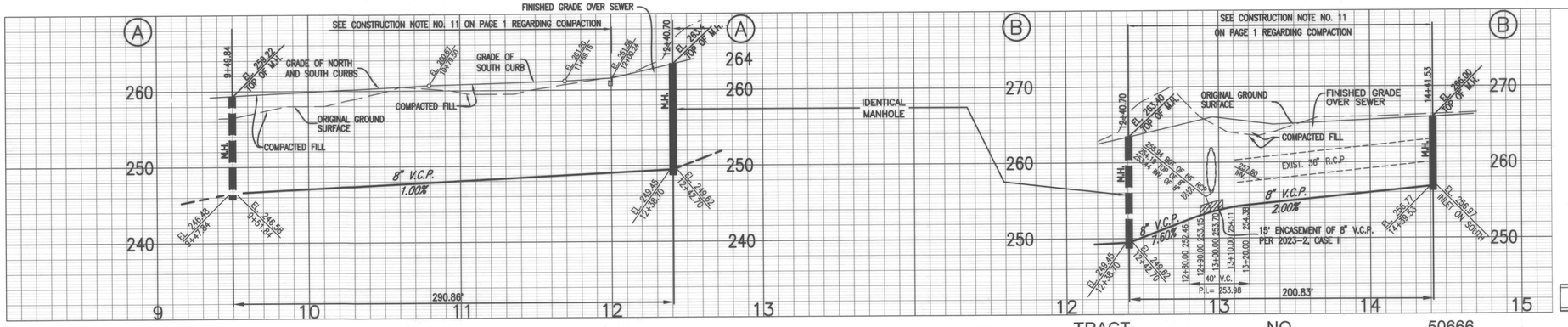


NO CITY CHARGES/NO LA COUNTY CHARGES FOR CONNECTION

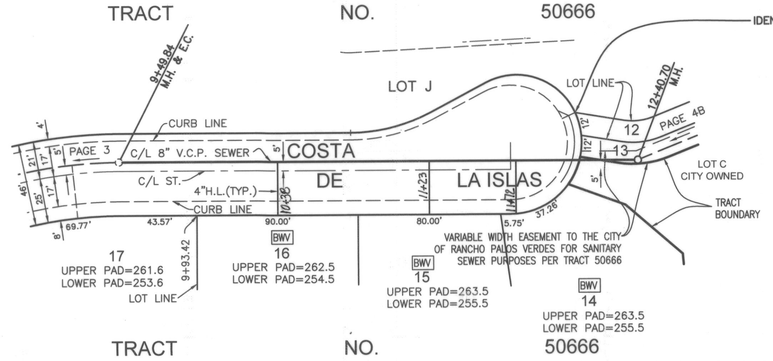
SEE CO. SANITATION DISTRICT FOR SPECIAL CONNECTION CHARGES
TEL. (562) 699-7411 EX. 2727

SCALE: VERT. 1" = 8'
HORIZ. 1" = 40'

DOUBLE SCALE

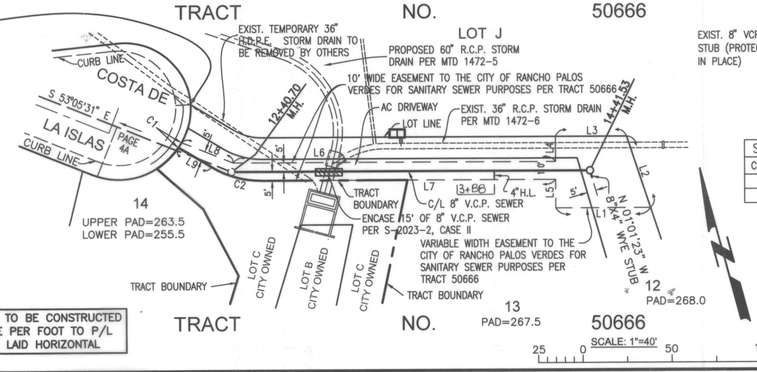



TRACT 50666

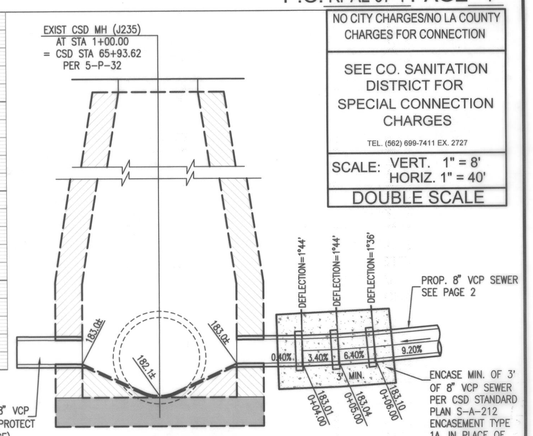



TRACT 50666

HOUSE LATERALS TO BE CONSTRUCTED WITH 1/4" RISE PER FOOT TO P/L WYE'S TO BE LAID HORIZONTAL


EXIST. TEMPORARY 36" CSD R.E. STORM DRAIN TO BE REMOVED BY OTHERS
PROPOSED 60" R.C.P. STORM DRAIN PER MTD 1472-5
10' WIDE EASEMENT TO THE CITY OF RANCHO PALOS VERDES FOR SANITARY SEWER PURPOSES PER TRACT 50666
AC DRIVEWAY
EXIST. 36" R.C.P. STORM DRAIN PER MTD 1472-6
LOT J
CURB LINE
COSTA DE
LA ISLAS
14 UPPER PAD=263.5 LOWER PAD=255.5
13 PAD=267.5
12 PAD=268.0
TRACT BOUNDARY
LOT C CITY OWNED
LOT B CITY OWNED
VARIABLE WIDTH EASEMENT TO THE CITY OF RANCHO PALOS VERDES FOR SANITARY SEWER PURPOSES PER TRACT 50666
8" WYE STUB

TRACT 50666


EXIST CSD MH (J235) AT STA 1+00.00 = CSD STA 65+93.62 PER 5-P-32
EXIST. 8" VCP STUB (PROTECT IN PLACE)
PROP. 8" VCP SEWER SEE PAGE 2
ENCASE MIN. OF 3' OF 8" VCP SEWER PER CSD STANDARD PLAN S-A-212 ENCASEMENT TYPE 1A. IN PLACE OF 660-B-4000 CONCRETE, 1.5 SACK SLURRY SHALL BE USED.
DEFLECTION=7°44'
DEFLECTION=7°44'
DEFLECTION=1°36'
0.40%
3.40%
6.40%
9.20%
3' MIN.
183.04'
182.14'
EXIST CDS MH (J235) AT STA 1+00.00 =CSD STA 65+93.62 PER 5-P-32 CONNECTION DETAIL
SCALE: 1/2" = 1'-0"

SEWER EASEMENT CURVE TABLE

| CURVE | DELTA | RADIUS | LENGTH |
|---|---|---|---|
| C1 | 4°43'12" | 40.00' | 3.30' |
| C2 | 30°55'25" | 54.00' | 29.14' |

SEWER EASEMENT LINE TABLE

| LINE | DIRECTION | LENGTH |
|---|---|---|
| L1 | N 74°56'44" W | 53.28' |
| L2 | S 03°19'04" E | 42.15' |
| L3 | S 74°56'44" E | 40.00' |
| L4 | N 15°03'16" E | 14.00' |
| L5 | N 15°03'16" E | 16.00' |
| L6 | S 74°56'44" E | 180.50' |
| L7 | N 74°56'44" W | 182.43' |
| L8 | S 53°05'31" E | 32.70' |
| L9 | N 44°01'19" W | 21.42' |

09/05/2019

REVIEWED BY: LAND DEVELOPMENT DIVISION
BY: Pedro Romero 9/10/2019
FINAL MAPS, SEWER AND LANDSCAPING SUBDIVISION PLAN CHECKING SECTION DATE